

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041819\
 Data File : VX009045.D
 Acq On : 18 Apr 2019 15:45
 Operator : JC/SP
 Sample : K2449-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW146-190416

Quant Time: Apr 19 01:38:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	243020	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	394270	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	340655	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	143200	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	162475	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
35) Dibromofluoromethane	5.50	113	118137	46.69	ug/l	0.00
Spiked Amount			Recovery	=	93.38%	
50) Toluene-d8	8.71	98	488193	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
62) 4-Bromofluorobenzene	11.13	95	162426	45.60	ug/l	0.00
Spiked Amount			Recovery	=	91.20%	

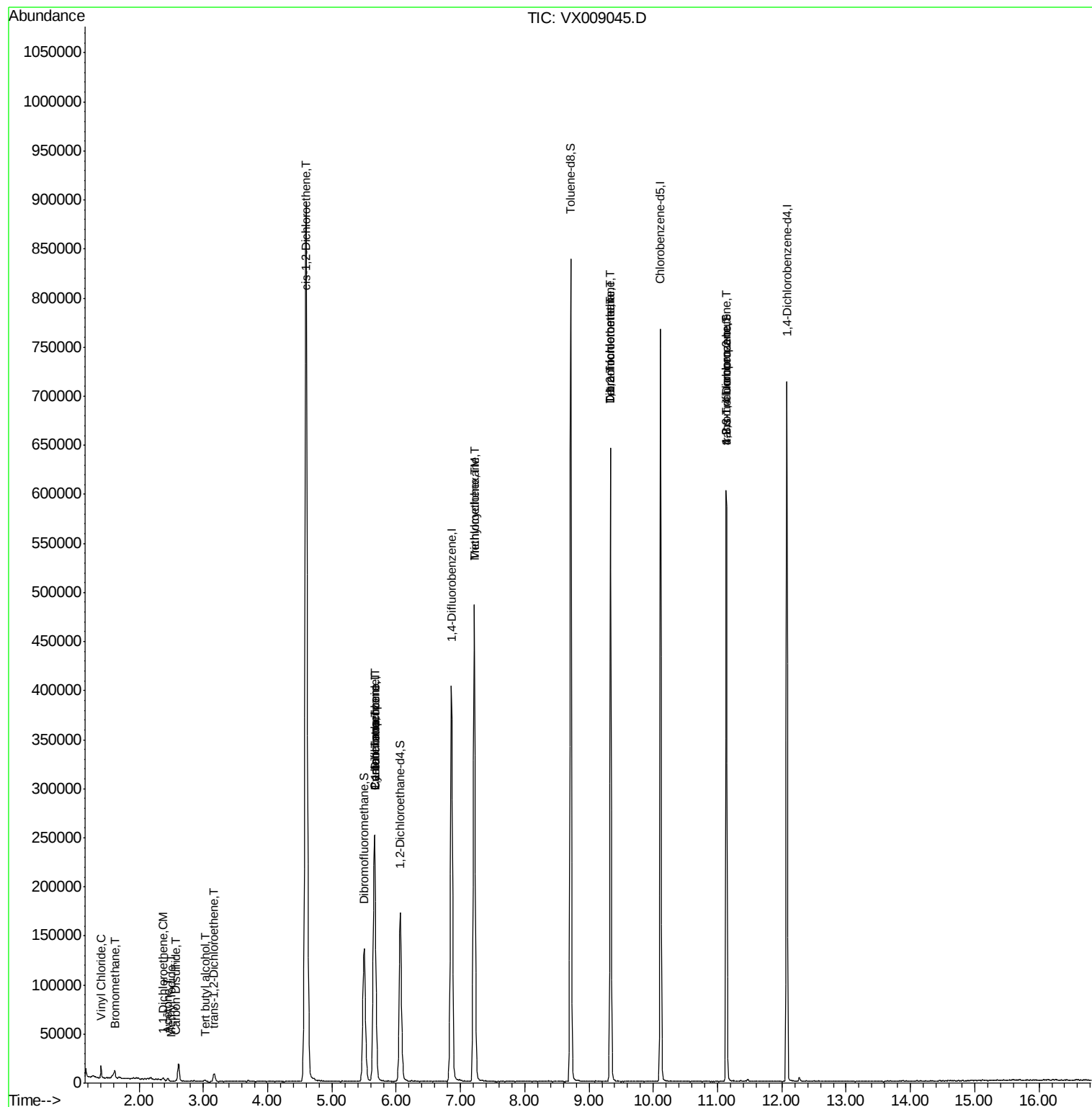
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	9164	2.740	ug/l	98
5) Bromomethane	1.64	94	241	3.955	ug/l #	65
10) Methyl Iodide	2.51	142	134	4.459	ug/l #	42
11) Tert butyl alcohol	3.02	59	885	1.164	ug/l #	84
12) 1,1-Dichloroethene	2.37	96	1105	0.424	ug/l	81
16) Acetone	2.45	43	3497	1.969	ug/l	94
17) Carbon Disulfide	2.57	76	676	1.339	ug/l #	75
21) trans-1,2-Dichloroethene	3.17	96	3237	1.165	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	550736	174.504	ug/l	90
28) Bromochloromethane	5.01	49	202	Below Cal	#	21
31) Cyclohexane	5.67	56	5489	1.006	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	19517	4.786	ug/l #	50
38) Carbon Tetrachloride	5.66	117	23535	6.808	ug/l #	17
39) Methylcyclohexane	7.21	83	2377	0.479	ug/l #	1
44) Trichloroethene	7.21	130	182799	62.021	ug/l	98
55) 1,1,2-Trichloroethane	9.33	97	1226	0.429	ug/l #	1
60) Dibromochloromethane	9.34	129	117937	43.067	ug/l #	10
64) Tetrachloroethene	9.34	164	127142	49.130	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	82778	23.673	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	82778	60.776	ug/l #	11

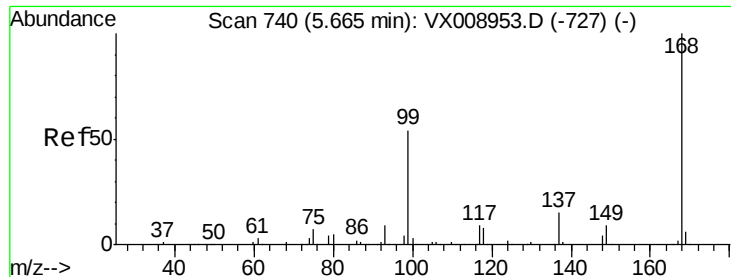
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_X

ClientSampleId :

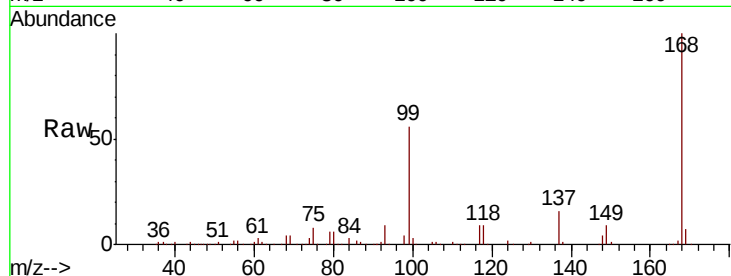
ST008MW146-190416

Tot Ion:168 Resp: 243020

Ion Ratio Lower Upper

168 100

99 55.5 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

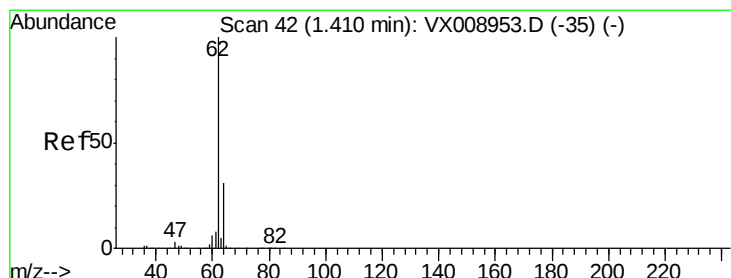
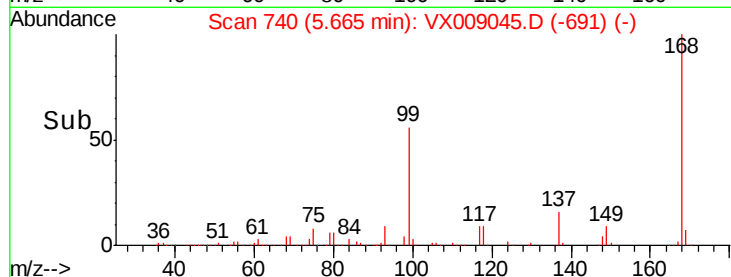
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 2.740 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX009045.D

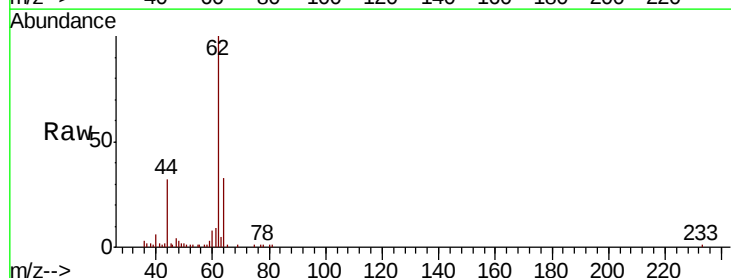
Acq: 18 Apr 2019 15:45

Tgt Ion: 62 Resp: 9164

Ion Ratio Lower Upper

62 100

64 32.5 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

8000

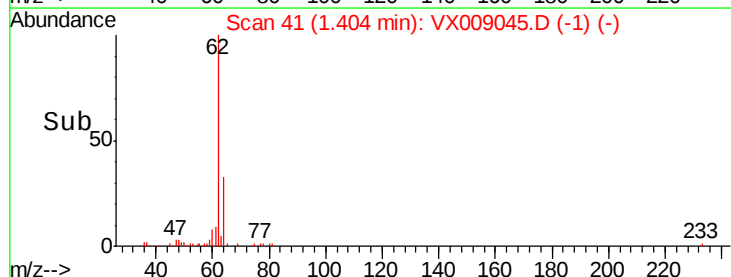
6000

4000

2000

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: 3.955 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_X

ClientSampleId :

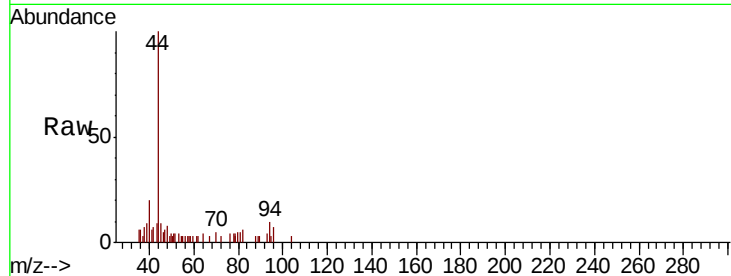
ST008MW146-190416

Tot Ion: 94 Resp: 241

Ion Ratio Lower Upper

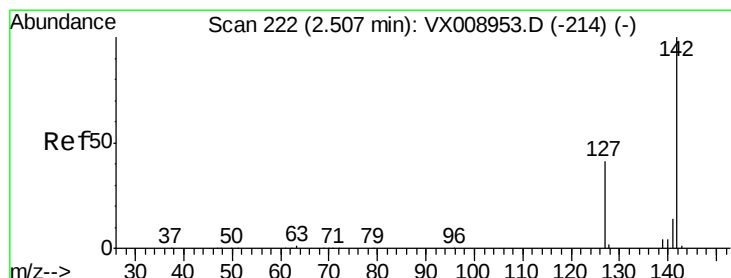
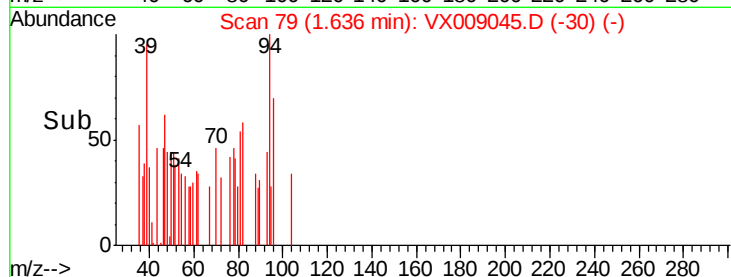
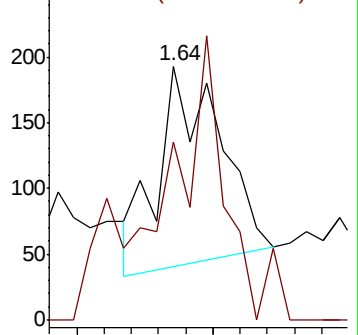
94 100

96 58.7 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.459 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

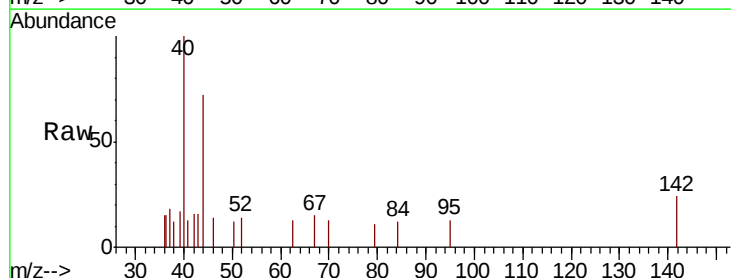
Tgt Ion: 142 Resp: 134

Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

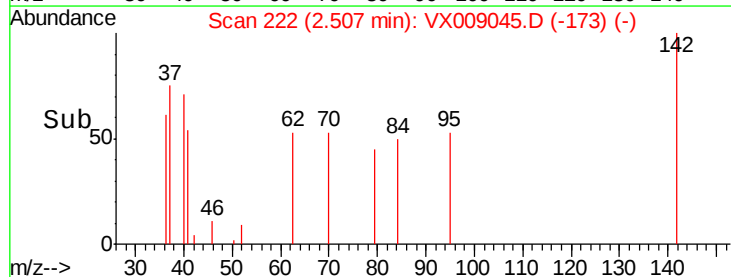
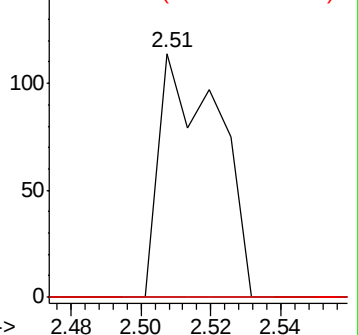
141 0.0 11.4 17.2#

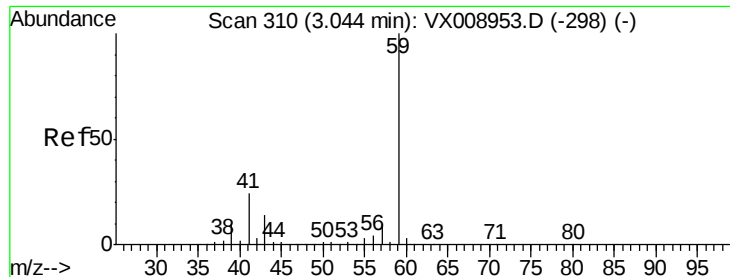


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

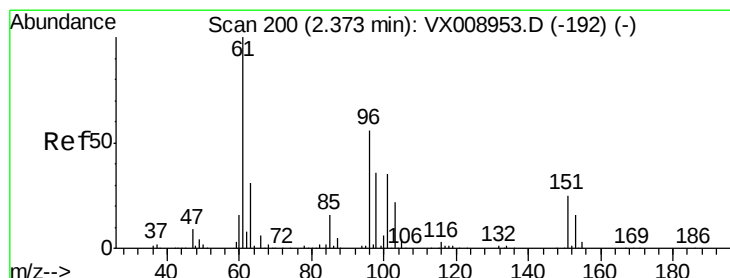
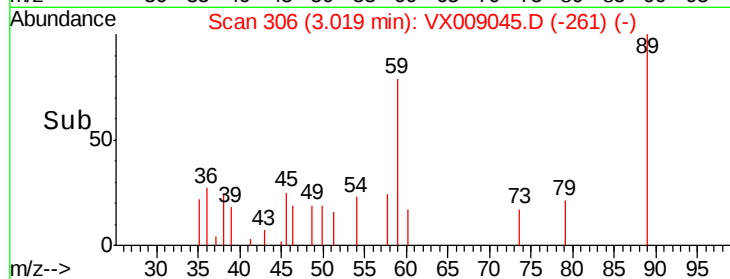
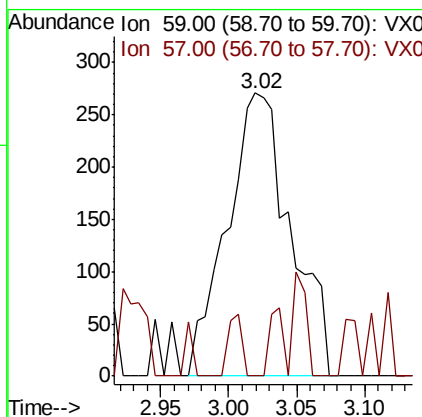
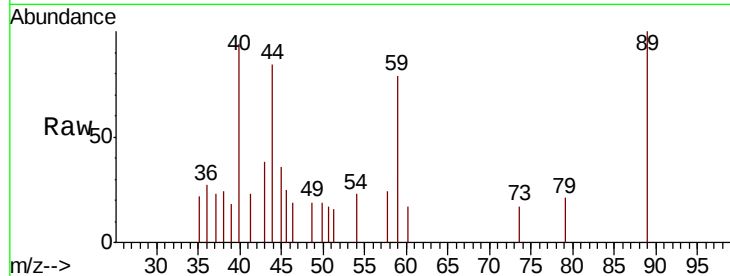




#11
 Tert butvl alcohol
 Concen: 1.164 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.02 min
 Lab File: VX009045.D
 Acq: 18 Apr 2019 15:45

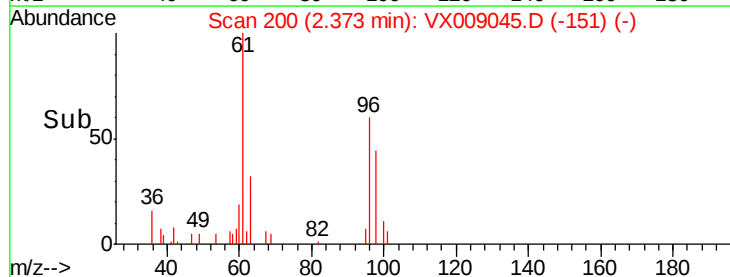
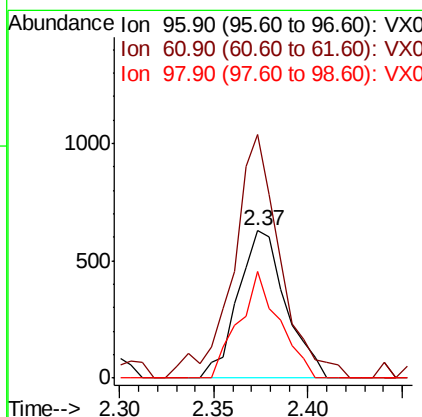
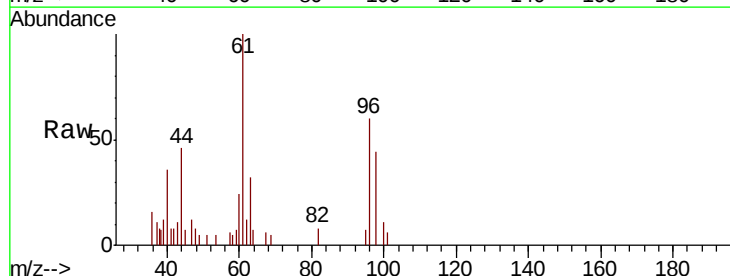
Instrument :
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 ST008MW146-190416

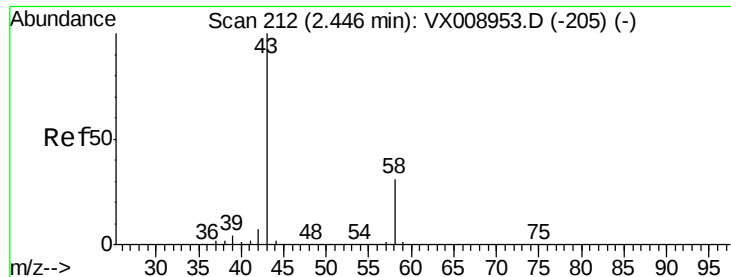
Tot Ion: 59 Resp: 885
 Ion Ratio Lower Upper
 59 100
 57 4.6 8.4 12.6#



#12
 1,1-Dichloroethene
 Concen: 0.424 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. -0.00 min
 Lab File: VX009045.D
 Acq: 18 Apr 2019 15:45

Tgt Ion: 96 Resp: 1105
 Ion Ratio Lower Upper
 96 100
 61 148.3 142.2 213.2
 98 72.9 50.9 76.3





#16

Acetone

Concen: 1.969 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_X

ClientSampleId :

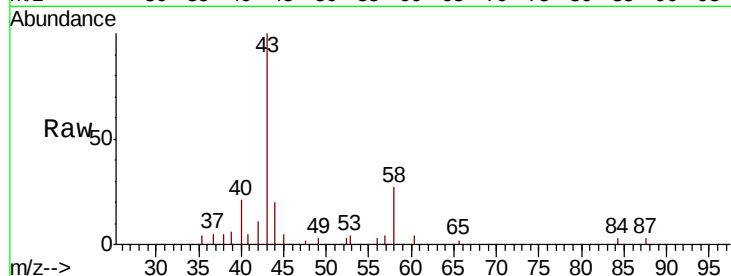
ST008MW146-190416

Tot Ion: 43 Resp: 3497

Ion Ratio Lower Upper

43 100

58 27.7 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

2000

1500

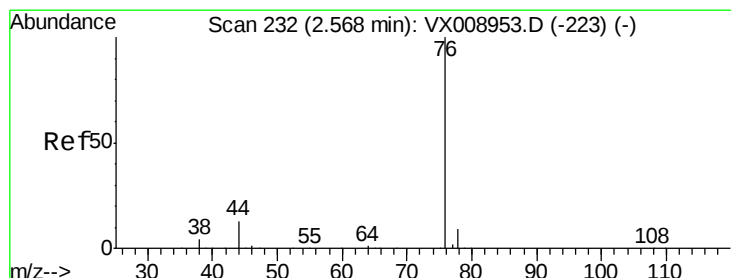
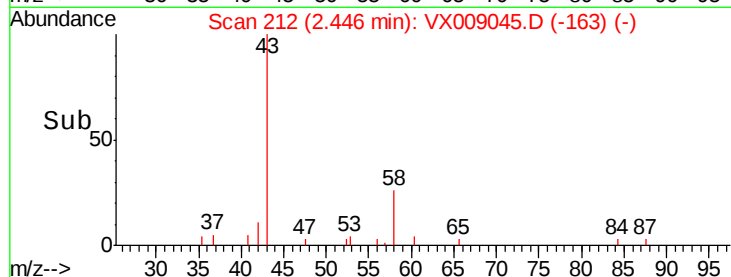
1000

500

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 1.339 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009045.D

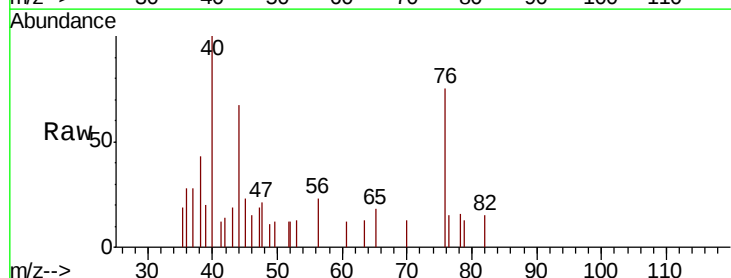
Acq: 18 Apr 2019 15:45

Tgt Ion: 76 Resp: 676

Ion Ratio Lower Upper

76 100

78 17.9 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

300

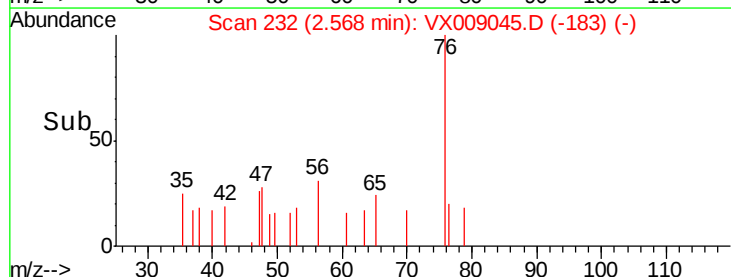
200

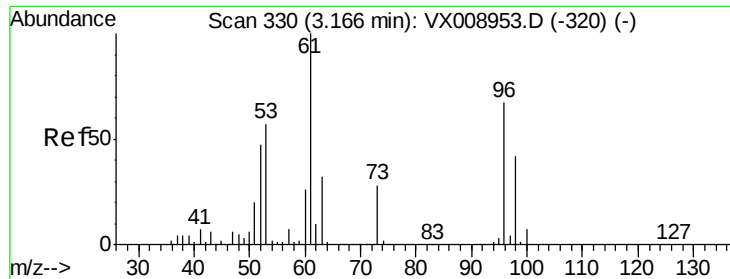
100

0

2.55 2.60

Time-->





#21

trans-1,2-Dichloroethene

Concen: 1.165 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_X

ClientSampleId :

ST008MW146-190416

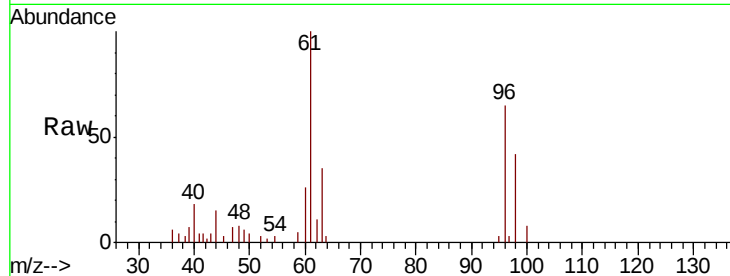
Tot Ion: 96 Resp: 3237

Ion Ratio Lower Upper

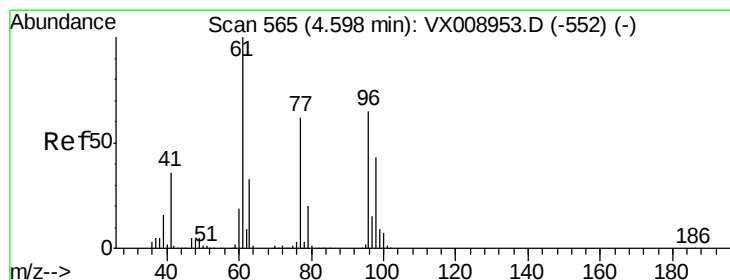
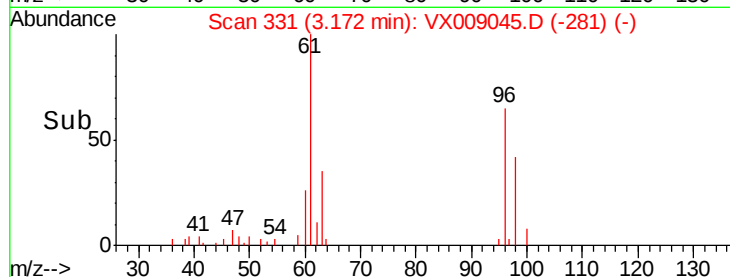
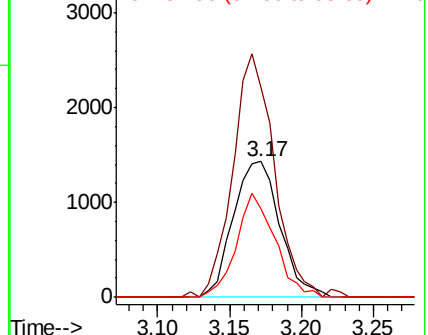
96 100

61 151.4 120.3 180.5

98 65.1 50.2 75.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 174.504 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

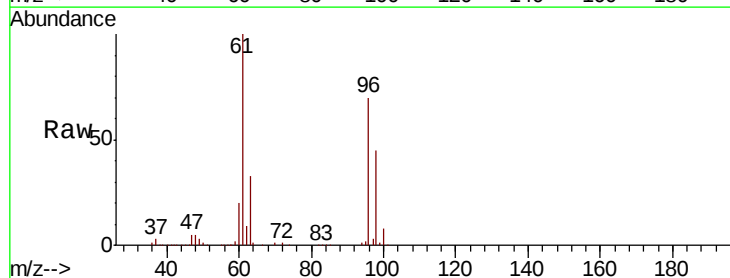
Tgt Ion: 96 Resp: 550736

Ion Ratio Lower Upper

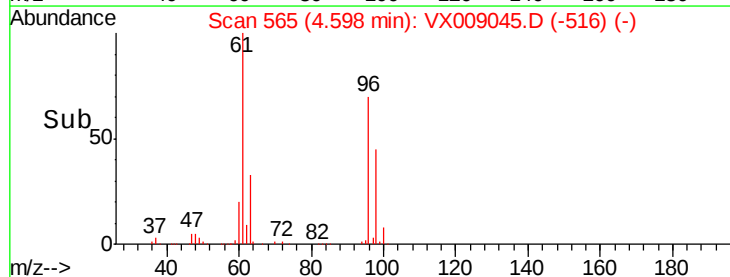
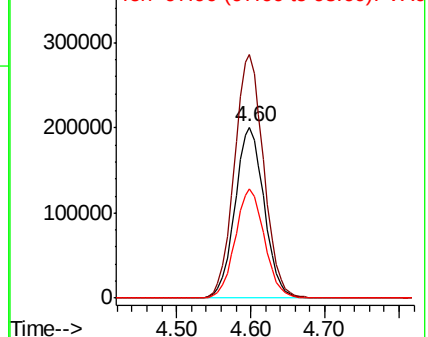
96 100

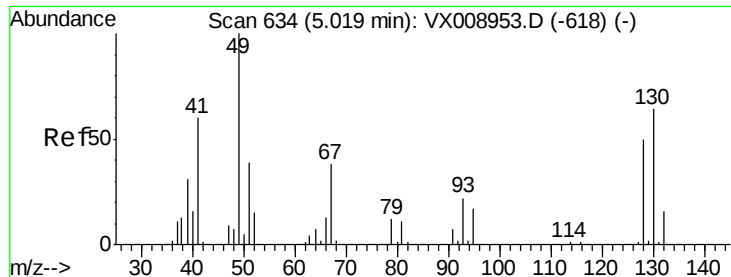
61 143.3 0.0 322.0

98 63.9 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

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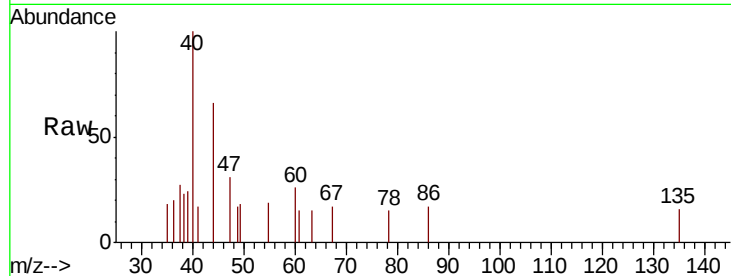
Tot Ion: 49 Resp: 202

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

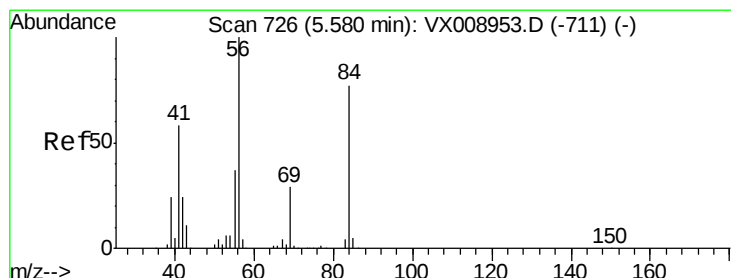
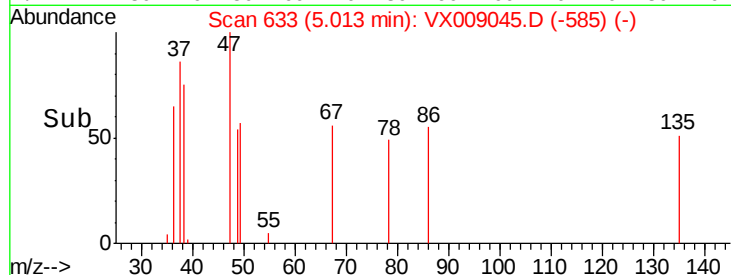
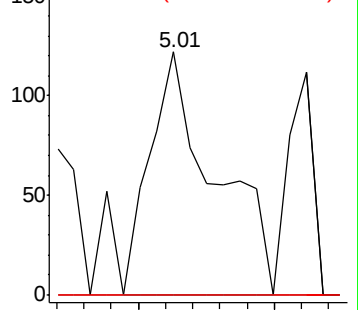
130 0.0 50.4 75.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.006 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

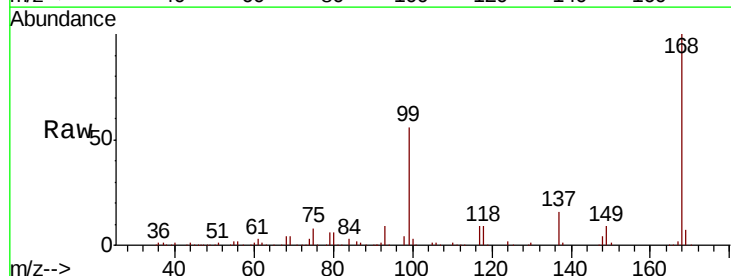
Tgt Ion: 56 Resp: 5489

Ion Ratio Lower Upper

56 100

69 178.8 23.3 34.9#

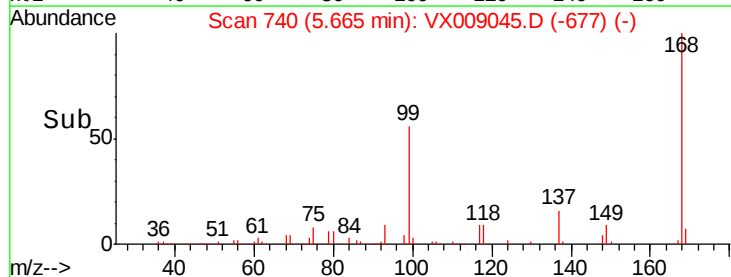
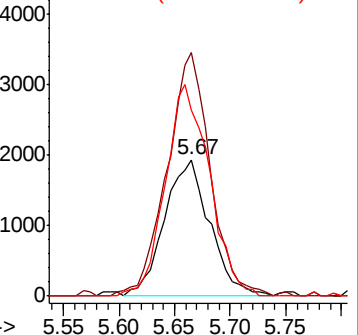
84 136.6 61.7 92.5#

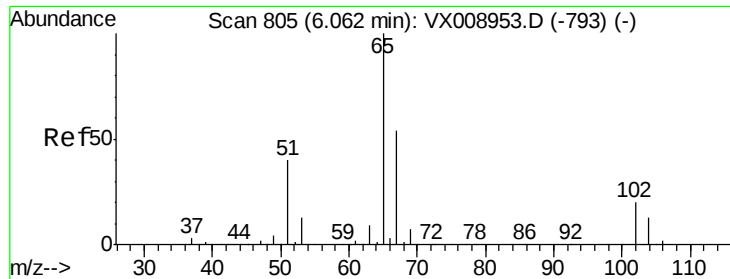


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.440 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

Instrument :

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ClientSampleId :

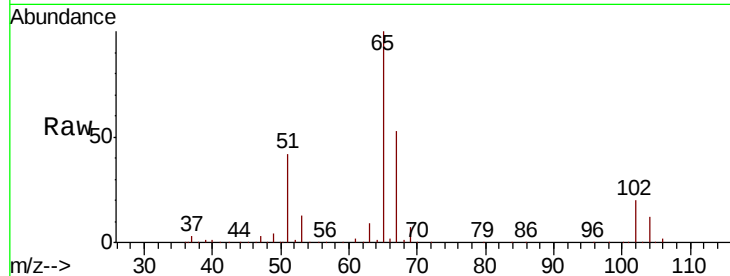
ST008MW146-190416

Tot Ion: 65 Resp: 162475

Ion Ratio Lower Upper

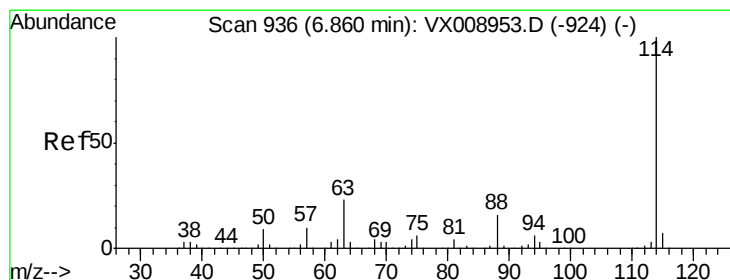
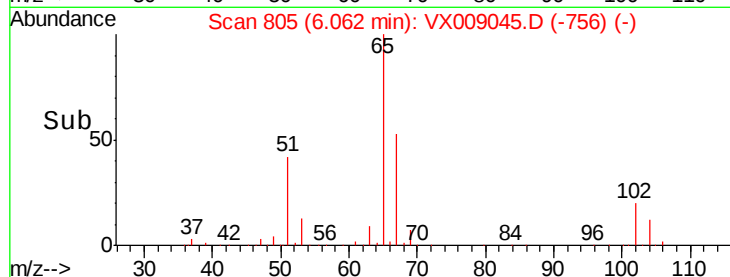
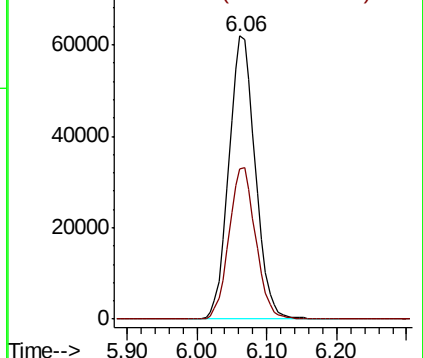
65 100

67 53.7 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

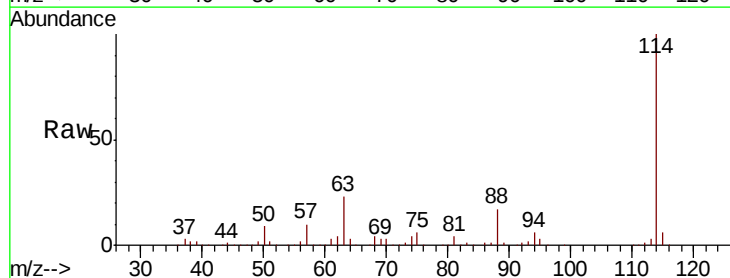
Tgt Ion: 114 Resp: 394270

Ion Ratio Lower Upper

114 100

63 23.2 0.0 46.0

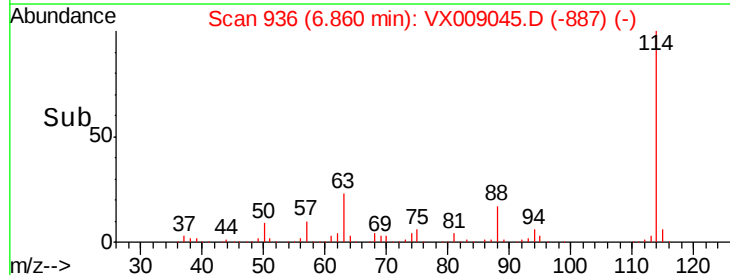
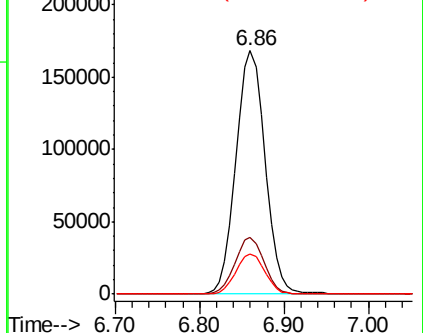
88 16.5 0.0 32.6

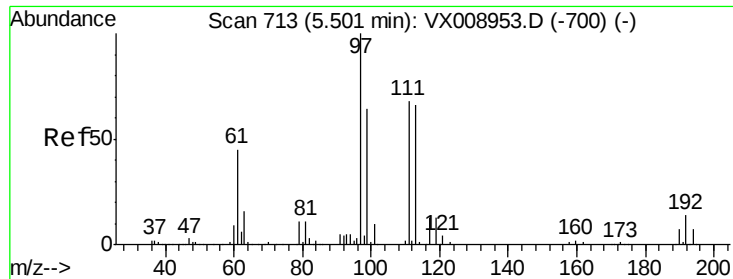


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

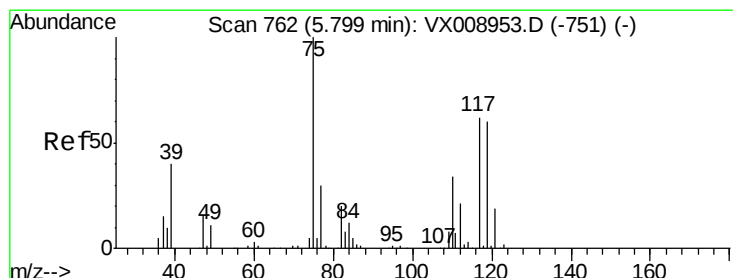
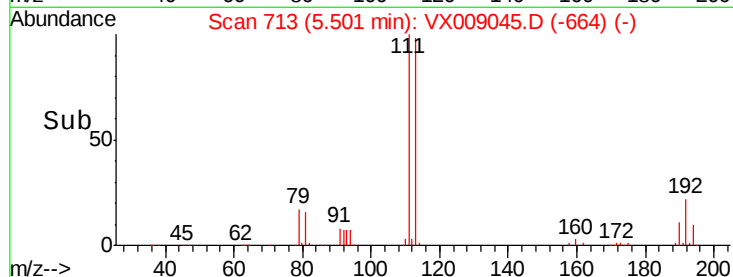
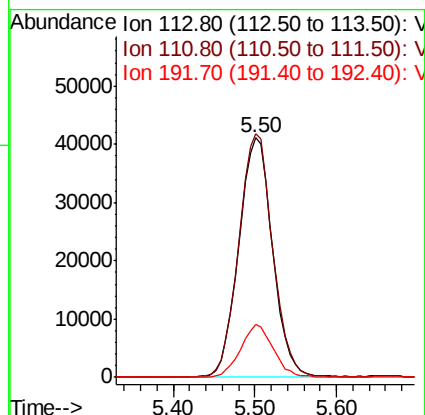
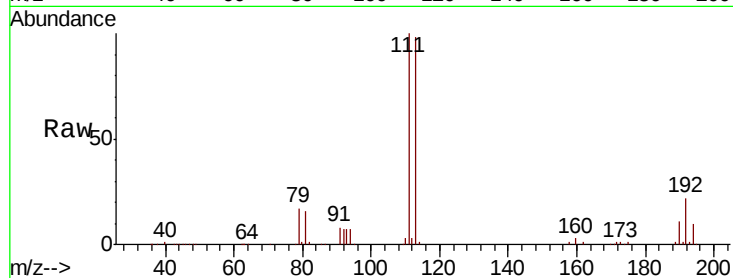




#35
 Dibromofluoromethane
 Concen: 46.688 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX009045.D
 Acq: 18 Apr 2019 15:45

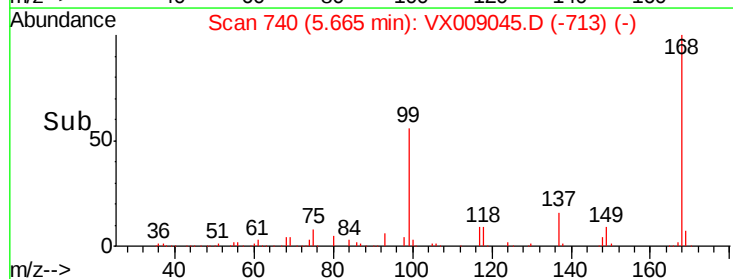
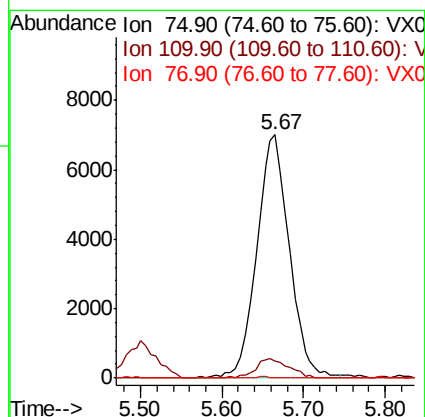
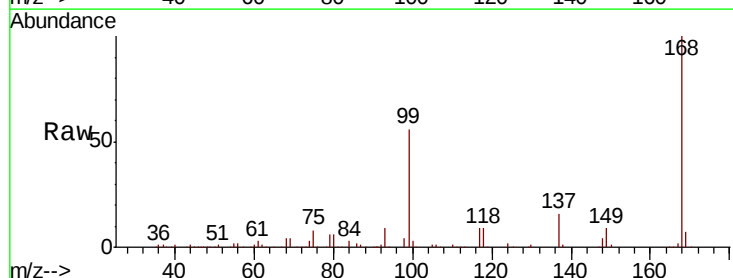
Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW146-190416

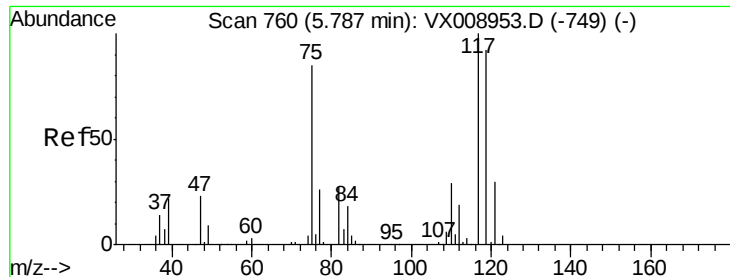
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.9	124.3
192	21.2	17.4	26.0



#36
 1,1-Dichloropropene
 Concen: 4.786 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009045.D
 Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.9	50.7#
77	0.2	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.808 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_X

ClientSampleId :

ST008MW146-190416

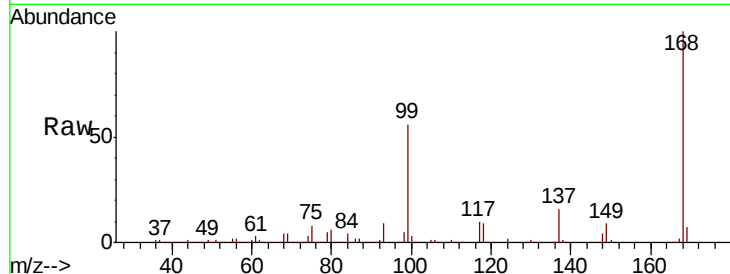
Tot Ion:117 Resp: 23535

Ion Ratio Lower Upper

117 100

119 4.8 73.8 110.8#

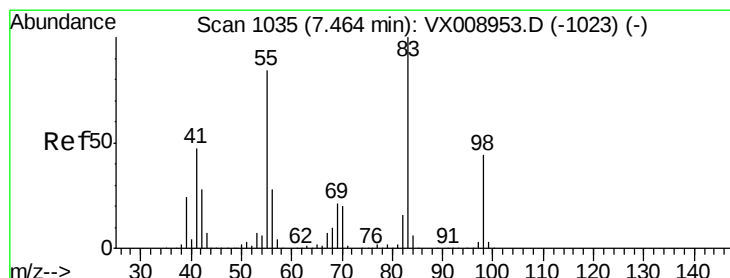
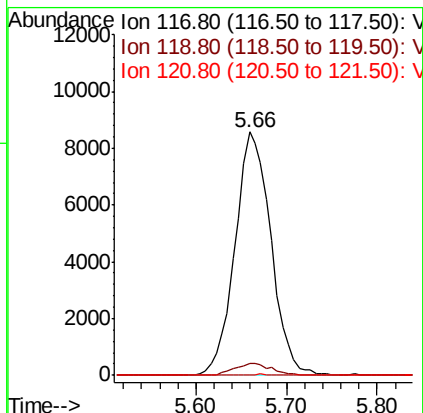
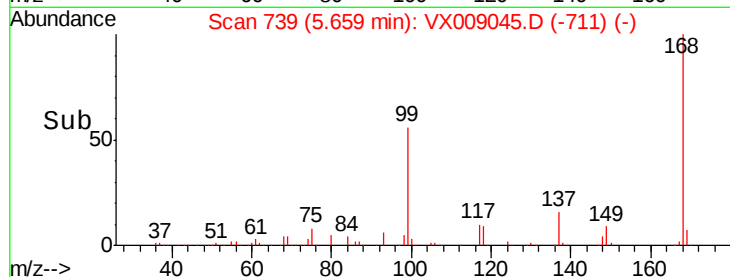
121 0.0 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.479 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

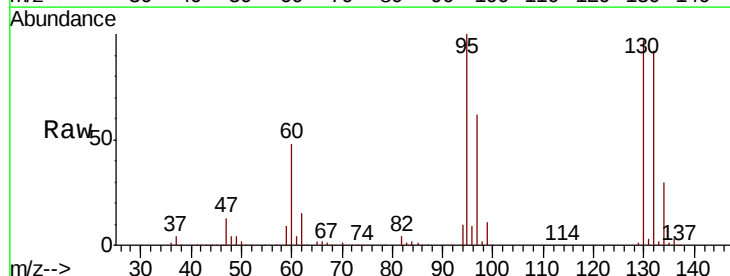
Tgt Ion: 83 Resp: 2377

Ion Ratio Lower Upper

83 100

55 0.0 67.1 100.7#

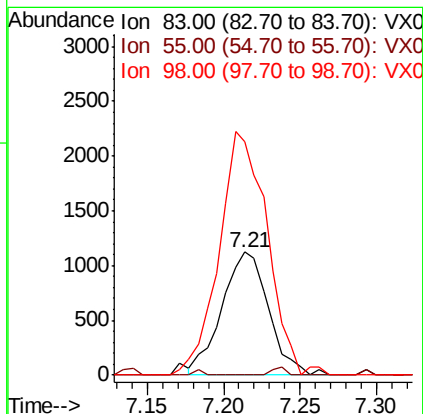
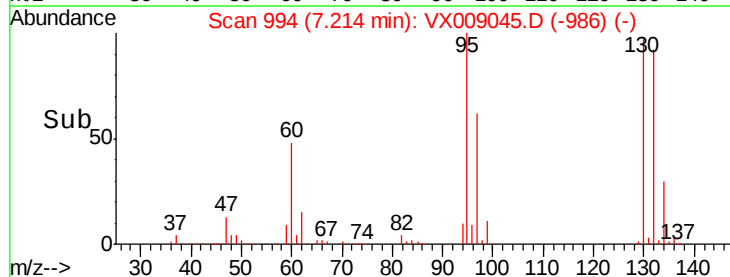
98 189.7 35.1 52.7#

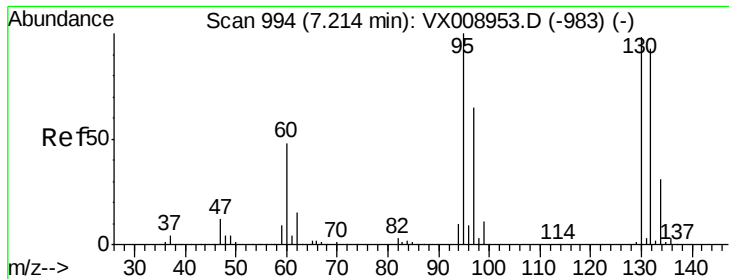


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 62.021 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_X

ClientSampleId :

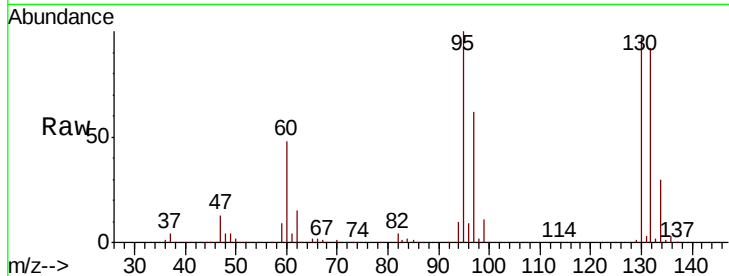
ST008MW146-190416

Tot Ion:130 Resp: 182799

Ion Ratio Lower Upper

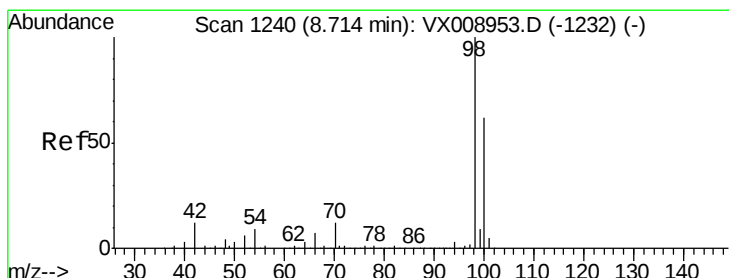
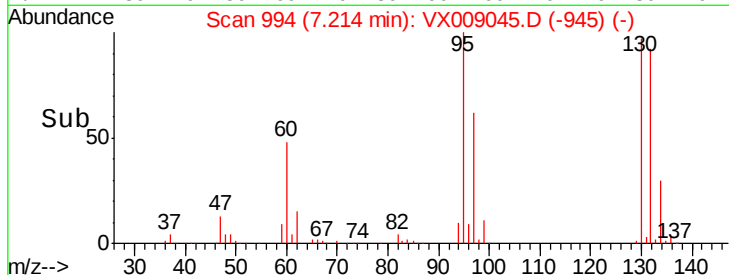
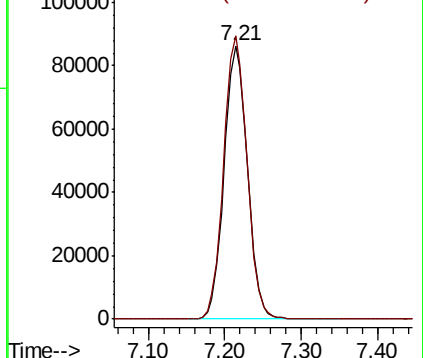
130 100

95 103.4 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 48.379 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009045.D

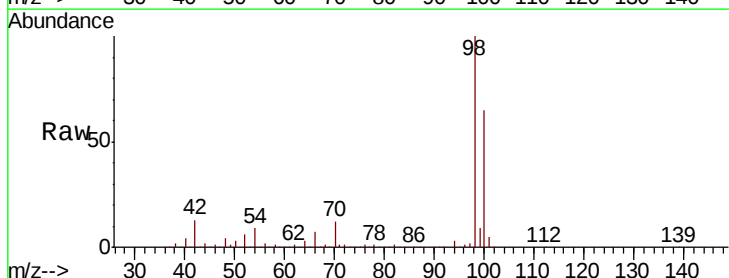
Acq: 18 Apr 2019 15:45

Tgt Ion: 98 Resp: 488193

Ion Ratio Lower Upper

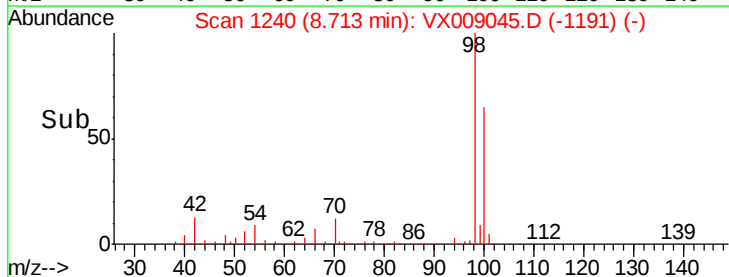
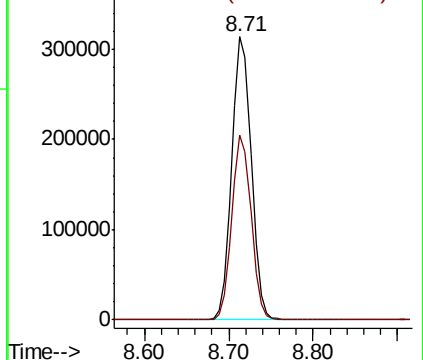
98 100

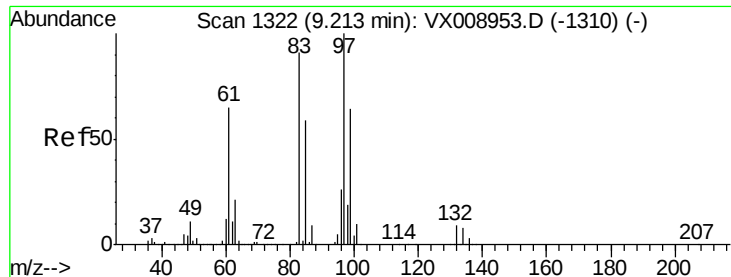
100 64.6 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#55

1,1,2-Trichloroethane

Concen: 0.429 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. 0.12 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_X

ClientSampleId :

ST008MW146-190416

Tot Ion: 97 Resp: 1226

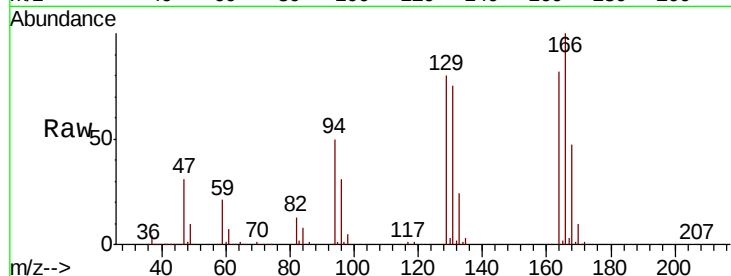
Ion Ratio Lower Upper

97 100

83 264.0 72.6 108.8#

85 28.6 46.9 70.3#

99 18.2 51.0 76.6#

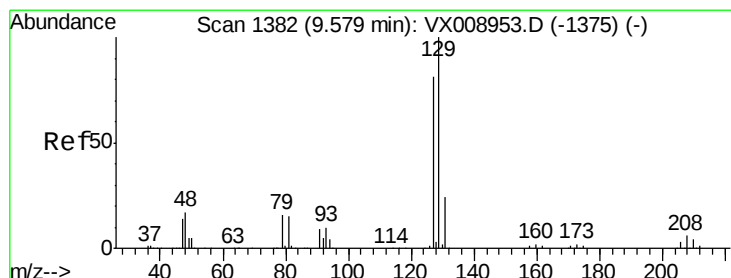
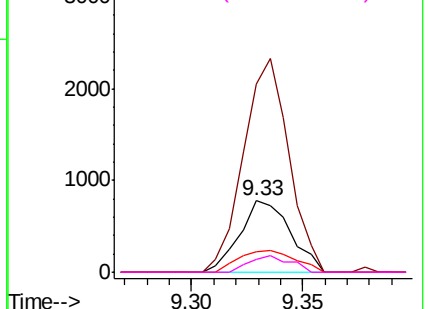
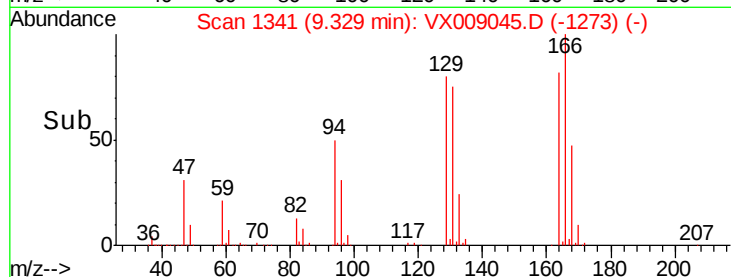


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#60

Dibromochloromethane

Concen: 43.067 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009045.D

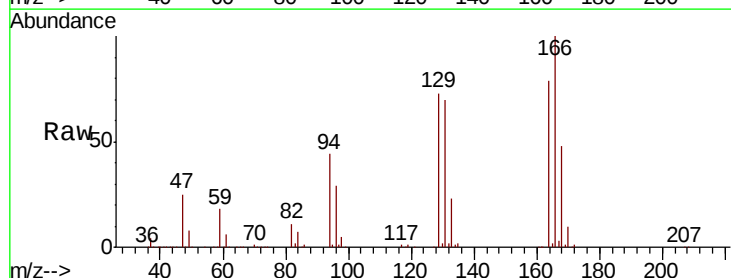
Acq: 18 Apr 2019 15:45

Tgt Ion:129 Resp: 117937

Ion Ratio Lower Upper

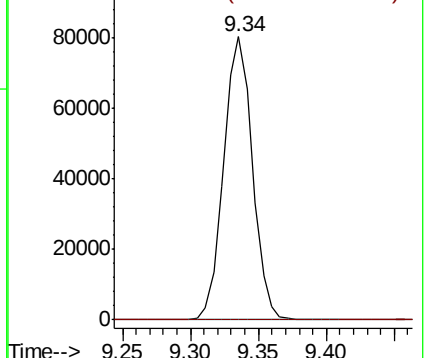
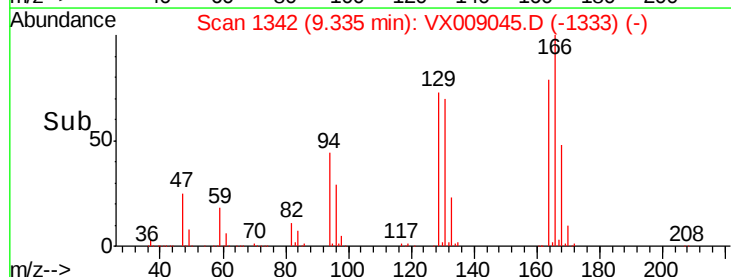
129 100

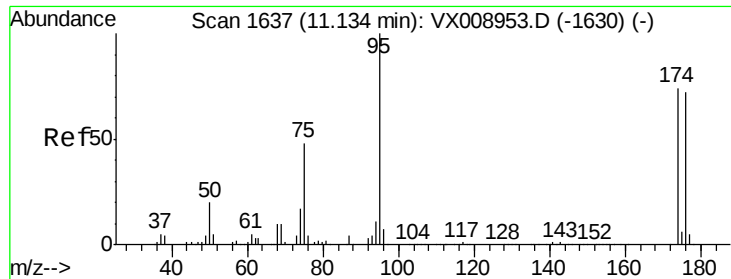
127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 45.597 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_X

ClientSampleId :

ST008MW146-190416

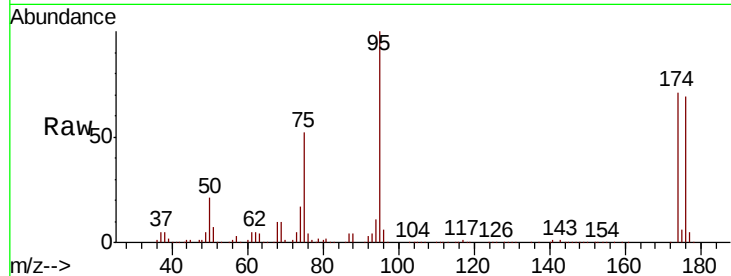
Tot Ion: 95 Resp: 162426

Ion Ratio Lower Upper

95 100

174 78.9 0.0 159.6

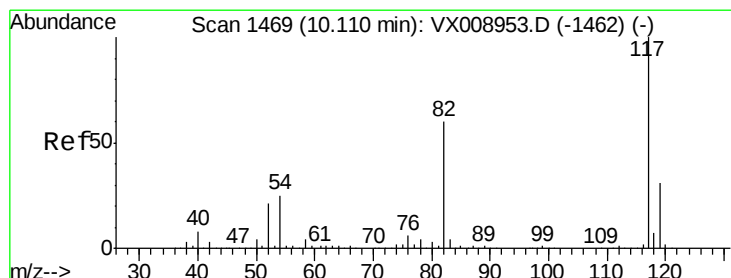
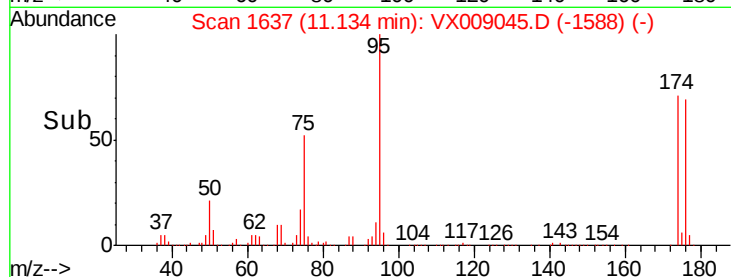
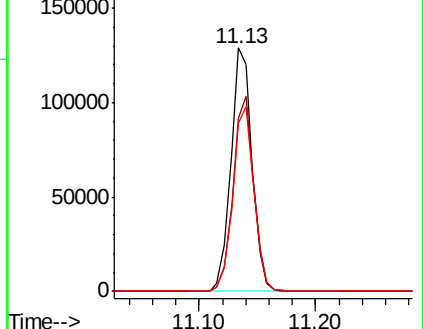
176 76.2 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX009045.D

Acq: 18 Apr 2019 15:45

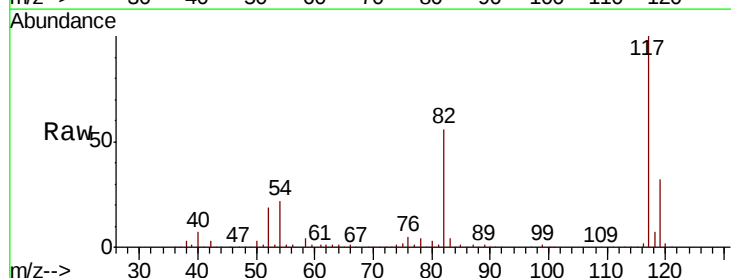
Tgt Ion: 117 Resp: 340655

Ion Ratio Lower Upper

117 100

82 56.0 48.2 72.4

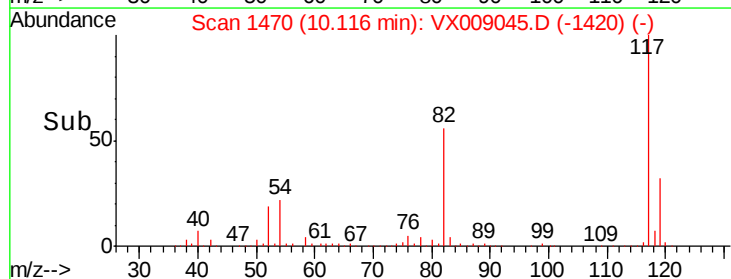
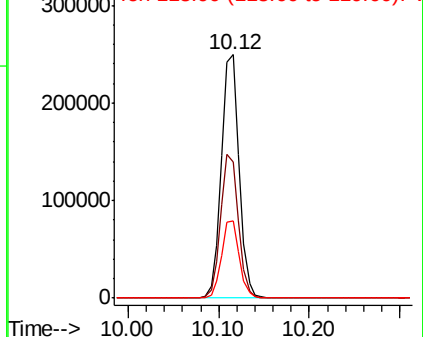
119 31.7 25.0 37.6

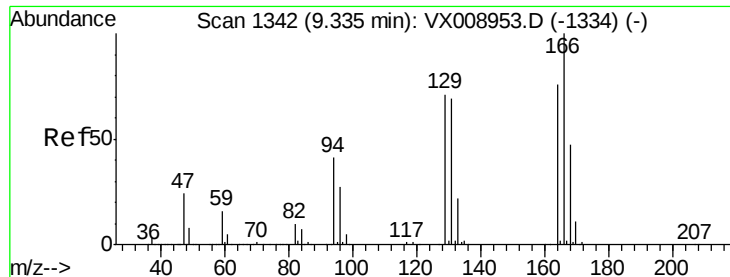


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

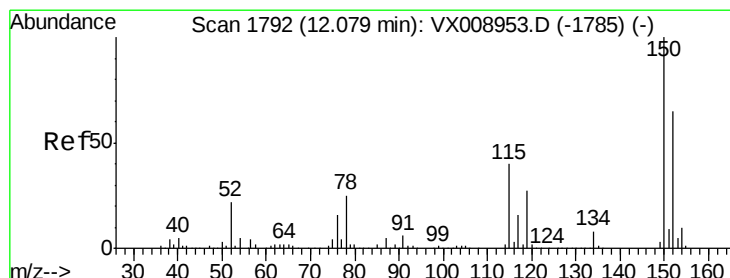
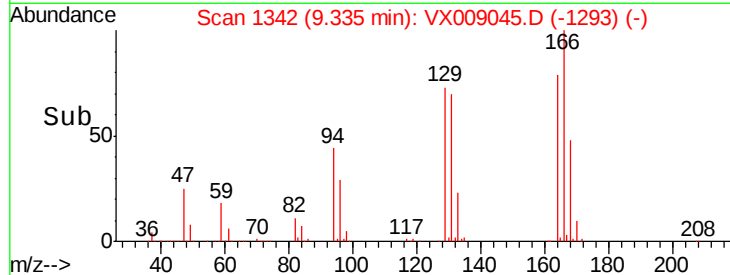
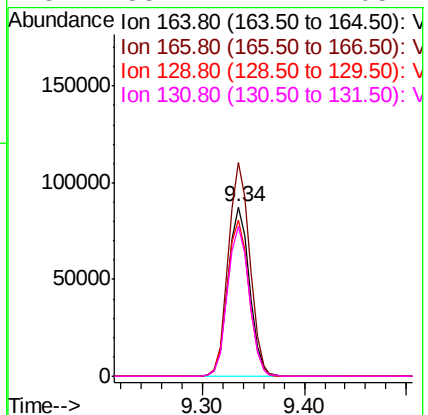
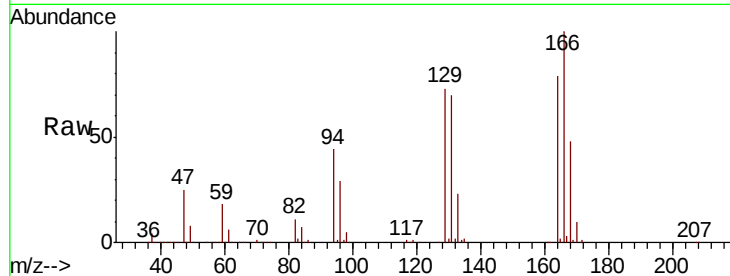




#64
Tetrachloroethene
Concen: 49.130 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009045.D
Acq: 18 Apr 2019 15:45

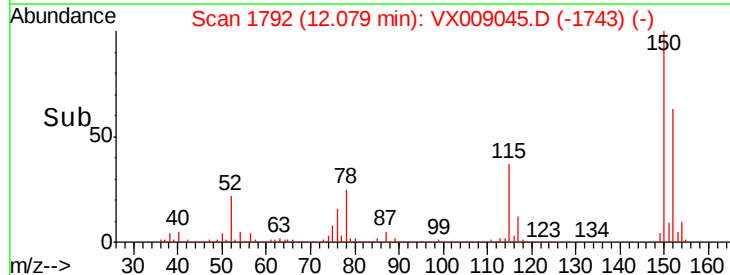
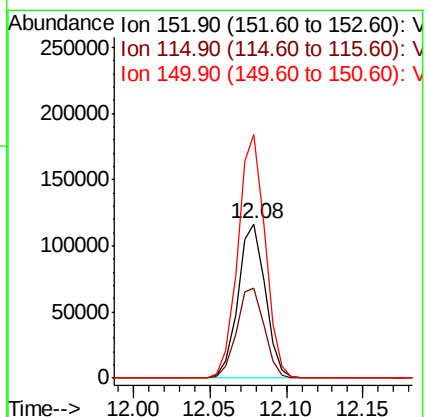
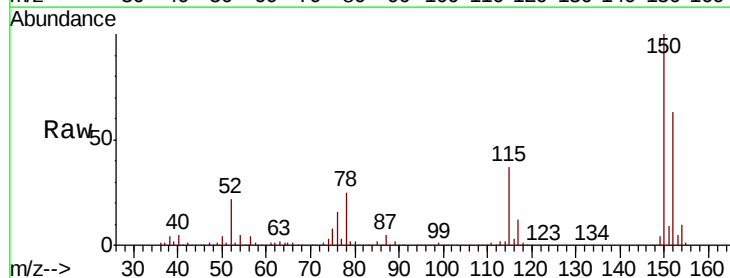
Instrument :
MSVOA_X
ClientSampleId :
ST008MW146-190416

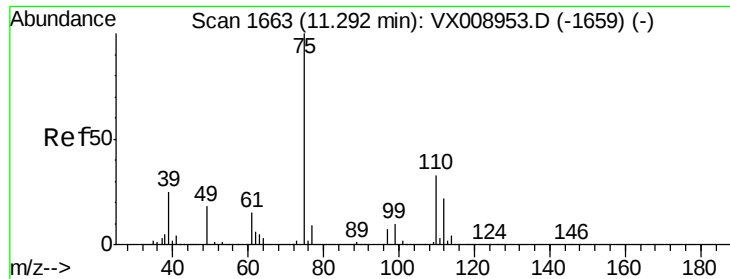
Tot Ion	Ratio	Lower	Upper
164	100		
166	126.2	105.0	157.4
129	91.9	74.2	111.4
131	88.4	72.2	108.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009045.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.9	41.4	124.2
150	157.9	0.0	349.8

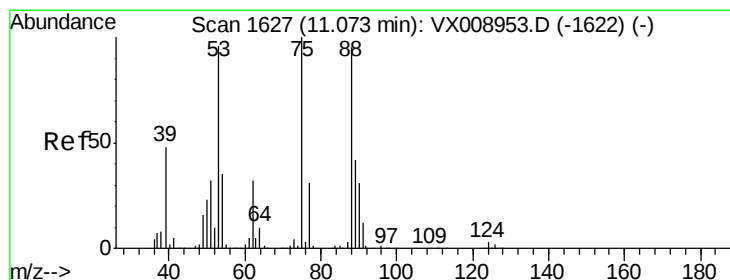
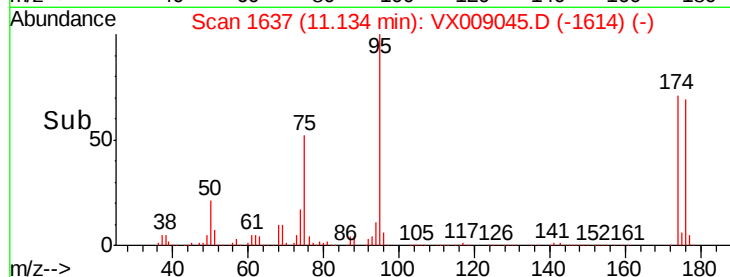
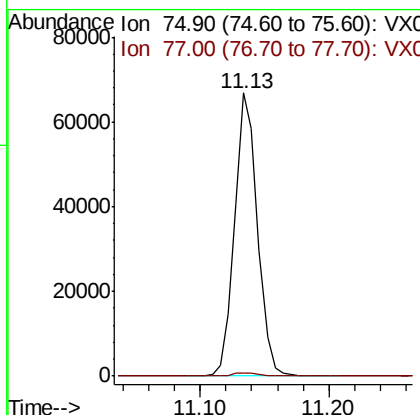
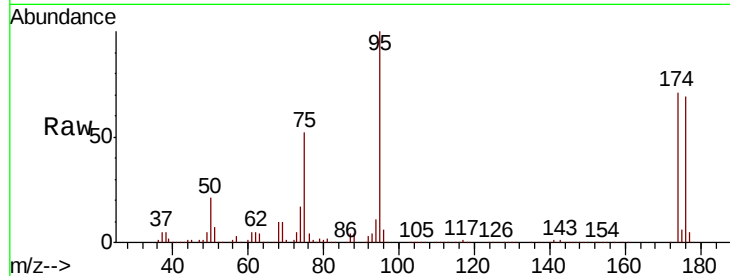




#76
 1,2,3-Trichloropropane
 Concen: 23.673 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009045.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW146-190416

Tot Ion: 75 Resp: 82778
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.7 68.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.776 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009045.D
 Acq: 18 Apr 2019 15:45

Tgt Ion: 75 Resp: 82778
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.2 117.4#
 89 0.0 36.0 54.0#

